

AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Cancelled)

2. (Currently amended) A receiver ~~(1)~~ according to claim 1 for receiving radio frequency signals and comprising:

a first stage ~~(3)~~ for amplifying and tuning radio frequency signals and for generating intermediate frequency signals;

a first gain controller ~~(38)~~ for controlling a gain of the first stage ~~(3)~~;

a second stage ~~(5)~~ for amplifying and demodulating the intermediate frequency signals; and

a second gain controller ~~(54)~~ for controlling a gain of the second stage ~~(5)~~; which first and second gain controllers ~~(38, 54)~~ control the gains independently from each other with the first gain controller to control the gain of the first stage based on a modulated intermediate frequency signal at an input of the first gain controller, and the second gain controller to control the gain of the second stage based on a demodulated intermediate frequency signal at an input of the second gain controller,

wherein both gain controllers ~~(38, 54)~~ are adjusted at the same reference level for controlling the gains in relation to this reference level.

3. (Currently amended) A receiver ~~(1)~~ according to claim 2, wherein the second stage ~~(5)~~ comprises a first intermediate frequency amplifier ~~(50)~~ and a second intermediate frequency amplifier ~~(51)~~, with the first gain controller ~~(38)~~ comprising a first gain detector ~~(41)~~ for detecting an output signal of the first intermediate frequency amplifier ~~(50)~~ and a first gain generator ~~(40)~~ for generating, in response to the detecting, a first gain control signal to be supplied to a control input ~~(39)~~ of a radio frequency amplifier ~~(31)~~ in the first stage ~~(3)~~.

4. (Currently amended) A receiver ~~(1)~~ according to claim 3, wherein the second stage ~~(5)~~ comprises an intermediate frequency demodulator stage ~~(52)~~ having an input coupled to an

output of the second intermediate frequency amplifier (~~51~~) and an output coupled to an input of a video amplifier (~~53~~) for generating a video signal, with the second gain controller (~~54~~) comprising a second gain detector (~~59~~) for detecting an output signal of the intermediate frequency demodulator stage (~~52~~) and a second gain generator (~~58~~) for generating, in response to the detecting, a second gain control signal to be supplied to a control input (~~57~~) of the second intermediate frequency amplifier (~~51~~).

5-8. (Cancelled)

9. (Currently amended) ~~A tuner according to claim 5~~ A tuner for use in a receiver for receiving radio frequency signals, which receiver comprises

a first stage for amplifying and tuning radio frequency signals and for generating intermediate frequency signals;

a first gain controller for controlling a gain of the first stage;

a second stage for amplifying and demodulating the intermediate frequency signals;

a second gain controller for controlling a gain of the second stage; which first and second gain controllers control the gains independently from each other with the first gain controller to control the gain of the first stage based on a modulated intermediate frequency signal at an input of the first gain controller, and the second gain controller to control the gain of the second stage based on a demodulated intermediate frequency signal at an input of the second gain controller, and which tuner comprises the first stage and the first gain controller,

wherein both gain controllers (~~38,54~~) are adjusted at the same reference level for controlling the gains in relation to this reference level.

10. (Currently amended) A tuner according to claim 9, wherein the second stage (~~5~~) comprises a first intermediate frequency amplifier (~~50~~) and a second intermediate frequency amplifier (~~51~~), with the first gain controller (~~38~~) comprising a first gain detector (~~41~~) for detecting an output signal of the first intermediate frequency amplifier (~~50~~) and a first gain generator (~~40~~) for generating, in response to the detecting, a first gain control signal to be supplied to a control input (~~39~~) of a radio frequency amplifier (~~31~~) in the first stage (~~3~~).

11. (Currently amended) A tuner according to claim 10, wherein the second stage (5) comprises an intermediate frequency demodulator stage (~~52~~) having an input coupled to an output of the second intermediate frequency amplifier (~~51~~) and an output coupled to an input of a video amplifier (~~53~~) for generating a video signal, with the second gain controller (~~54~~) comprising a second gain detector (~~59~~) for detecting an output signal of the intermediate frequency demodulator stage (~~52~~) and a second gain generator (~~58~~) for generating, in response to the detecting, a second gain control signal to be supplied to a control input (~~57~~) of the second intermediate frequency amplifier (~~51~~).

12. (Currently amended) ~~A demodulator according to claim 6~~ A demodulator for use in a receiver (1) for receiving radio frequency signals, which receiver (1) comprises:

a first stage (3) for amplifying and tuning radio frequency signals and for generating intermediate frequency signals;

a first gain controller (38) for controlling a gain of the first stage (3);

a second stage (5) for amplifying and demodulating the intermediate frequency signals; and

a second gain controller (54) for controlling a gain of the second stage (5); which first and second gain controllers (38, 54) control the gains independently from each other with the first gain controller to control the gain of the first stage based on a modulated intermediate frequency signal at an input of the first gain controller, and the second gain controller to control the gain of the second stage based on a demodulated intermediate frequency signal at an input of the second gain controller, and which demodulator comprises the second stage (5) and the second gain controller (54),

wherein both gain controllers (38, 54) are adjusted at the same reference level for controlling the gains in relation to this reference level.

13. (Currently amended) A demodulator according to claim 12, wherein the second stage (5) comprises a first intermediate frequency amplifier (~~50~~) and a second intermediate frequency amplifier (~~51~~), with the first gain controller (38) comprising a first gain detector (~~41~~) for detecting an output signal of the first intermediate frequency amplifier (~~50~~) and a first gain generator (~~40~~) for generating, in response to the detecting, a first gain control signal to be

supplied to a control input (~~39~~) of a radio frequency amplifier (~~31~~) in the first stage (~~3~~).

14. (Currently amended) A demodulator according to claim 13, wherein the second stage (~~5~~) comprises an intermediate frequency demodulator stage (~~52~~) having an input coupled to an output of the second intermediate frequency amplifier (~~51~~) and an output coupled to an input of a video amplifier (~~53~~) for generating a video signal, with the second gain controller (~~54~~) comprising a second gain detector (~~59~~) for detecting an output signal of the intermediate frequency demodulator stage (~~52~~) and a second gain generator (~~58~~) for generating, in response to the detecting, a second gain control signal to be supplied to a control input (~~57~~) of the second intermediate frequency amplifier (~~51~~).

15. (Currently amended) ~~A method according to claim 7~~ A method for receiving radio frequency signals and comprising:

a first step of amplifying and tuning radio frequency signals and of generating intermediate frequency signals;

a second step of controlling a gain of the first step;

a third step of amplifying and demodulating intermediate frequency signals;

a fourth step of controlling a gain of the third step; which second and fourth steps control the gains independently from each other, wherein one of the control inputs for the gain controllers is taken from a modulated IF signal at an input of a first gain controller, and one of the control inputs for the gain controllers is taken from a demodulated IF signal at an input of a second gain controller, further comprising and

adjusting the gain of the first and third steps at the same reference level for controlling the gains in relation to this reference level.

16. (Currently amended) A method according to claim 15, wherein controlling the gain of the first step further comprises:

detecting in a first stage (~~3~~) an output signal of a first intermediate frequency amplifier (~~50~~) in a second stage (~~5~~); and

generating, in response to the detecting, a first gain control signal for controlling the gain of the first step.

17. (Currently amended) A method according to claim 16, wherein controlling the gain of the second step further comprises:

detecting in the second stage ~~(5)~~ an output signal of an intermediate frequency demodulator stage ~~(52)~~; and

generating, in response to the detecting, a second gain control signal for controlling the gain of the second step.